From:	Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent:	12/10/2013 7:47:20 PM
To:	Bill Eichbrecht [billeich8@aol.com]
Subject:	RE: Vehicle Database
Attachments:	2013 common.pdf

I always act in a professional manner, especially when I go to a happy hour, I'll try to make the next one...   If you need coefficients for F250 you can find it in the attached app in section 12.

Joel Ball
Light-Duty Vehicle Group
Compliance Division
United States Environmental Protection Agency
(734) 214-4238
ball.joel@epa.gov

From: Bill Eichbrecht [mailto:billeich8@aol.com]
Sent: Tuesday, December 10, 2013 1:23 PM
To: Ball, Joel
Subject: Re: Vehicle Database

Hi Joel,

Thanks for the information and the websites. Even though we are doing some chassis dyno work on HD engine applications, this gives us a close approximation for what we are doing. I did not see any F250 or heavier in the data. Since those are either medium duty or heavy duty, it may not have been included in the data.

Your email was so formal and professional. I am not used to that as you well know. I hope to see you at the next Keith party at Applebee's.
Bill Eichbrecht
billeich8@aol.com
-----Original Message-----
From: Ball, Joel <ball.joel@epa.gov>
To: Bill Eichbrecht <billeich8@aol.com>
Sent: Tue, Dec 10, 2013 9:42 am
Subject: RE: Vehicle Database

Hi Bill

This is the data from the Ford application for certification, It does not have the CD or frontal area but it does have the dyno coefficients. You can also use the following links to get the dyno coefficients from the EPA data base but this only contains data on the tested vehicles. Test car list(all fuel economy /CAFÉ tests) http://www.epa.gov/otaq/tcldata.htm and cert test data: http://www.epa.gov/otaq/crttst.htm

The EPA certification database does not contain frontal area or CD but I hope this info will help you.

Coverage Chart   Date   RLDat file
RLcertchart_form.xls   7/31/2013

2013 Escalade

Version   Comment
40   Company

Vehicle Description					ETW	2-Term		3-Term (coeff)		
Body	Eng	Trans	Drive	Tire		Hwy (kW)	30-65 (kW)	B	F1	F2
E150	A6	A8	RWD	LT 235 75R 16 AS	5500	22.1	14.67	38.16	0.8144	0.00441
					5500	22.5	15.14	40.79	0.8136	0.00441
					6000	23.1	15.84	44.04	0.8088	0.00441
					6500	23.8	16.89	47.59	0.8090	0.00441
					7000	24.5	17.89	50.54	0.8088	0.00441
					7500	25.1	18.43	53.78	0.7736	0.00441
					5500	21.9	14.88	38.36	0.7582	0.00520
				LT 245 75R 16 AS	7500	22.2	15.33	39.77	0.7961	0.00520
					6000	22.8	16.33	42.89	0.7973	0.00520
					6500	23.3	17.22	45.35	0.8083	0.00520
					7000	23.9	18.09	48.37	0.8087	0.00520
					7500	24.5	18.93	51.14	0.8087	0.00520
E250	A6	A8	RWD	LT 235 75R 16 AS	5500	22.9	14.19	38.16	0.8144	0.00467
					5500	23.2	14.62	40.79	0.8136	0.00467
					6000	23.9	15.53	44.04	0.8088	0.00467
					6500	24.6	16.37	47.59	0.8090	0.00467
					7000	24.5	17.16	50.54	0.8088	0.00467
					7500	23.9	17.91	53.78	0.8736	0.00467
				LT 245 75R 16 AS	5500	22.6	14.36	38.36	0.7582	0.00752
					7500	22.9	14.82	39.77	0.7961	0.00752
					6000	23.5	15.78	42.89	0.7973	0.00752
					6500	24.1	16.48	45.35	0.8083	0.00752
					7000	24.7	17.04	48.37	0.8087	0.00752
					7500	23.2	18.37	51.14	0.8083	0.00752
E350	L6	A8	RWD	LT 235 75R 16 AS	5500	23.3	14.38	40.79	0.8136	0.00739
					6000	24.1	15.38	44.04	0.8088	0.00739
					6500	24.8	16.11	47.59	0.8090	0.00739
					7000	25.5	17.08	50.54	0.8088	0.00739
					7500	24.1	17.73	53.78	0.8736	0.00739
					8000	24.8	18.46	57.93	1.5086	0.00739
				LT 245 75R 16 AS	5500	23.2	14.69	39.77	0.7961	0.00804
					6000	23.8	15.62	42.89	0.7973	0.00804
					6500	24.3	16.32	45.35	0.8083	0.00804
					7000	24.9	17.37	48.37	0.8087	0.00804
					7500	23.5	18.49	51.14	0.8087	0.00804
					8000	24.0	18.93	53.88	0.8178	0.00804
E350	6.8L/6.0L	A8	RWD	LT 235 75R 16 AS	5500	23.8	14.37	44.95	0.8086	0.00625
					6500	24.3	15.14	47.83	0.8457	0.00625
					8000	22.2	15.97	50.28	0.8907	0.00625
					7500	23.8	16.73	53.82	0.8486	0.00625
					7500	26.5	17.58	57.06	1.0085	0.00625
					8000	27.2	18.28	60.36	1.0503	0.00625
				LT 245 75R 16 AS	7500	23.5	14.48	42.95	0.8093	0.00723
					8000	24.1	15.38	45.85	0.8407	0.00723
					6500	24.7	16.26	48.71	0.8713	0.00723
					7000	25.3	17.11	51.33	0.8508	0.00723
					7500	23.9	17.93	54.30	0.8517	0.00723
					8000	26.4	18.73	57.02	0.8968	0.00723

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From: Bill Eichbrecht [mailto:billeich8@aol.com]
Sent: Monday, December 09, 2013 4:28 PM
To: Ball, Joel
Subject: Fwd: Vehicle Database

Hi Joel,

Missed you at the last get together at my favorite restaurant, Applebee's.

Would you know where we can find the information regarding vehicle coefficient of drag and frontal area to determine the chassis dyno coefficients? The vehicle in particular is the 2013MY Ford E450 6.8L 2v engine.

As always, your assistance in the matter will be greatly appreciated.
Bill Eichbrecht
billeich8@aol.com
-----Original Message-----
From: Fernandez, Antonio <fernandez.antonio@epa.gov>
To: Bill Eichbrecht <billeich8@aol.com>
Cc: Ball, Joel <ball.joel@epa.gov>
Sent: Mon, Dec 9, 2013 3:28 pm
Subject: RE: Vehicle Database

Try Joel Ball as I am not familiar with a drag coefficient/frontal area database EPA maintains.

What do you know about class 6/7/8 CNG applications like Cummins Westport?

Tony

From: Bill Eichbrecht [mailto:billeich8@aol.com]
Sent: Monday, December 09, 2013 3:19 PM
To: Fernandez, Antonio
Subject: Vehicle Database

Hi Tony,

I know this is not your area at EPA, but do you know where I can find the EPA database for coefficient of drag for Ford vehicles. I am trying to find this for the dyno settings. They are asking for the coefficient of drag and the frontal area? Getting information from Ford is like finding your buddy Krozak with messed up hair.

Any help will be appreciated.
Bill Eichbrecht
billeich8@aol.com